ABSTRACT OF THE DISCLOSURE

A motor driver circuit including an inverter, a motor-drive-current detector, a current detector, and a controller operable to calculate a d-axis current difference between the detected d-axis current and a commanded d-axis current value, and a q-axis current difference between the detected q-axis current and a commanded q-axis current value. The controller is further operable on the basis of the calculated d-axis and q-axis current differences, to calculate a d-axis difference signal which is not influenced by a q-axis input voltage of the motor and which is influenced by a d-axis input voltage of the motor, and a q-axis difference signal which is not influenced by the d-axis input voltage and which is influenced by the q-axis input voltage. The controller controls the inverter, so as to zero the d-axis and q-axis difference signals.